ACF WaterSmart—Drought Synoptic

- Drought conditions in basin provided unique opportunity to characterize hydrologic conditions and ecological habitats during peak of irrigation season
- Georgia, Florida, and Alabama WSCs launched large scale effort to measure conditions during week of July 18th—
 - Streamflow and water quality
 - Groundwater levels

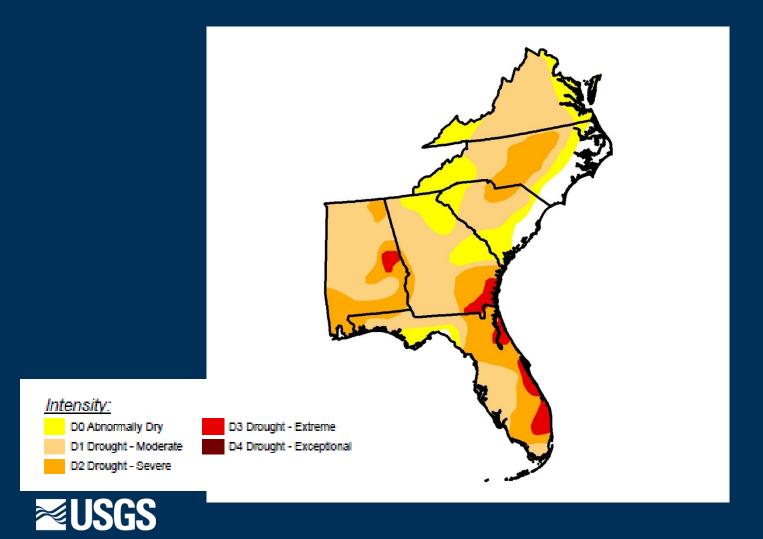


ACF WaterSmart—Drought Synoptic

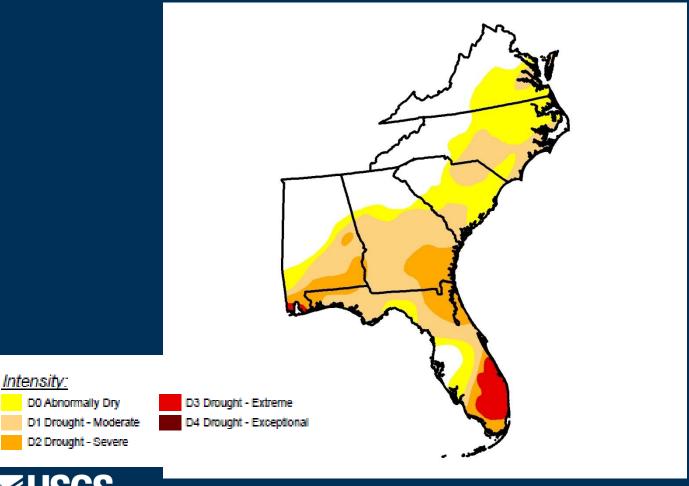
- Ecological habitats
 - During July 18th effort
 - field water quality parameters measured: dissolved O₂, specific conductance, pH, temperature
 - Water samples collected and analyzed for alkalinity
 - September—assess populations of fish and mussels and collect water quality samples in streams within a Piedmont and a Coastal Plain subbasin



Drought—3/11/11

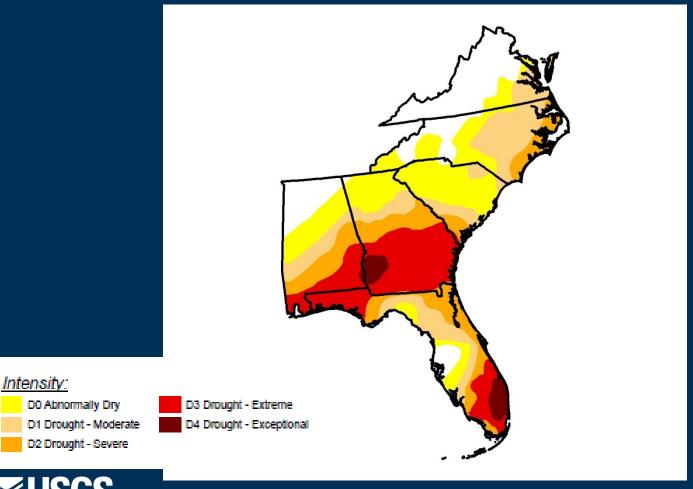


Drought—5/3/11



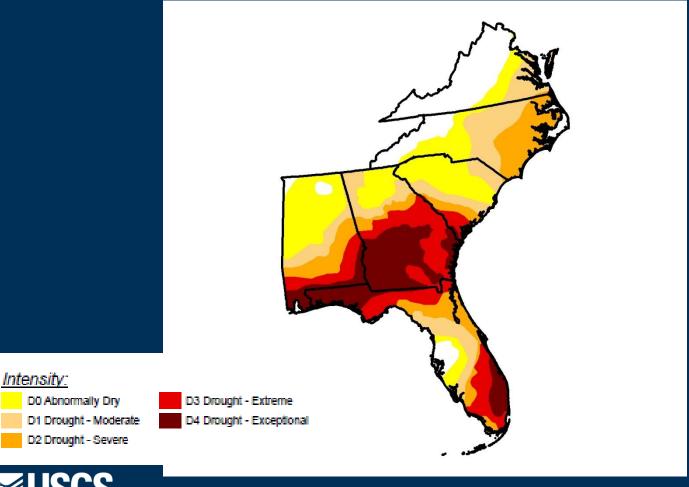


Drought—6/7/11



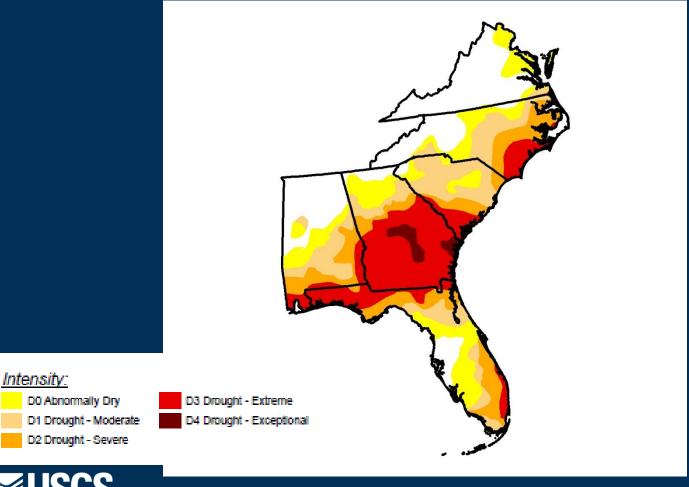


Drought—6/21/11



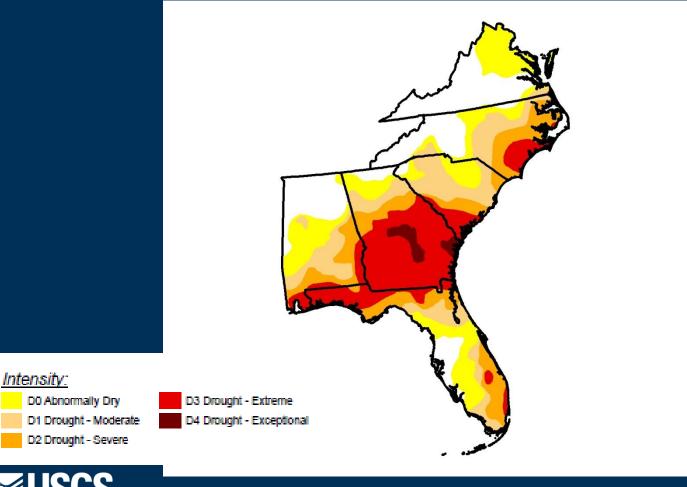


Drought—7/19/11



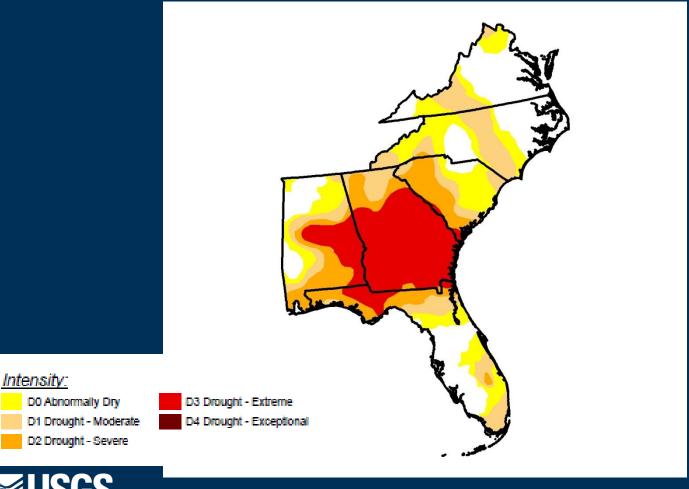


Drought—7/26/11





Drought—8/30/11

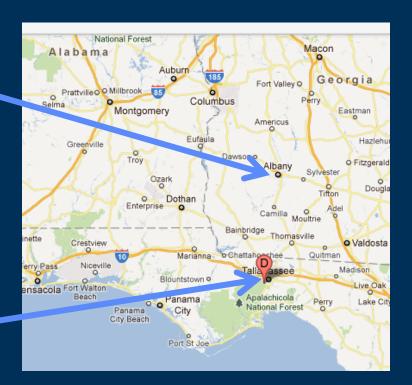




Cumulative Departure from normal precipitation

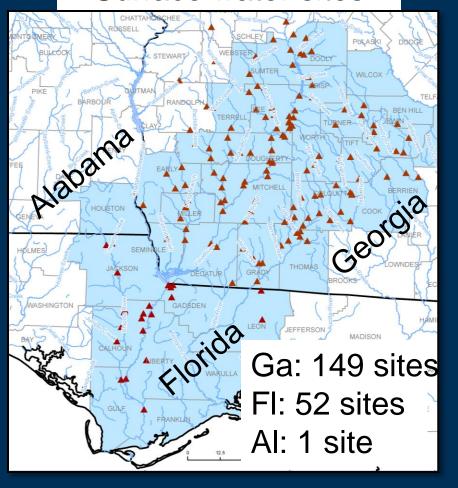




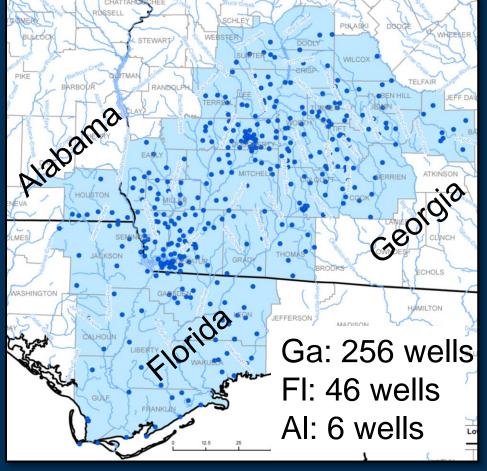


Summer 2011 Synoptic

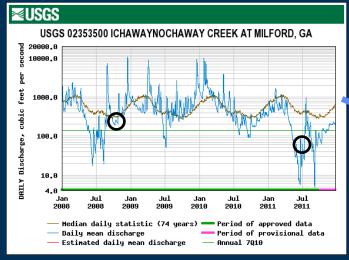
Surface water sites

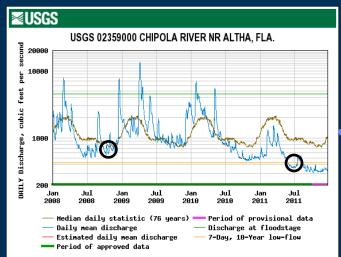


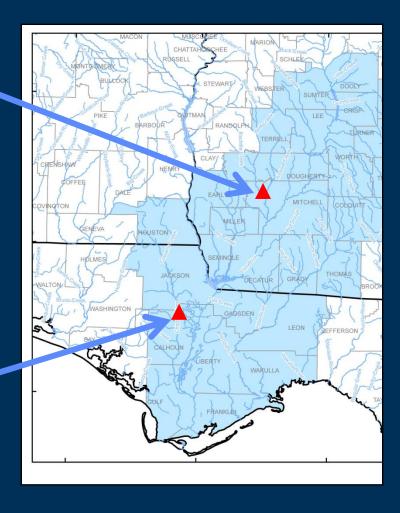
Groundwater sites



Streamflow



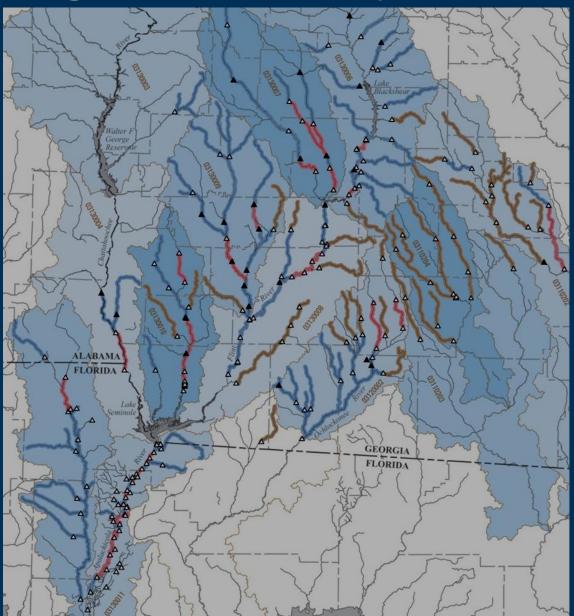






Gaining/Losing Streams July 2011

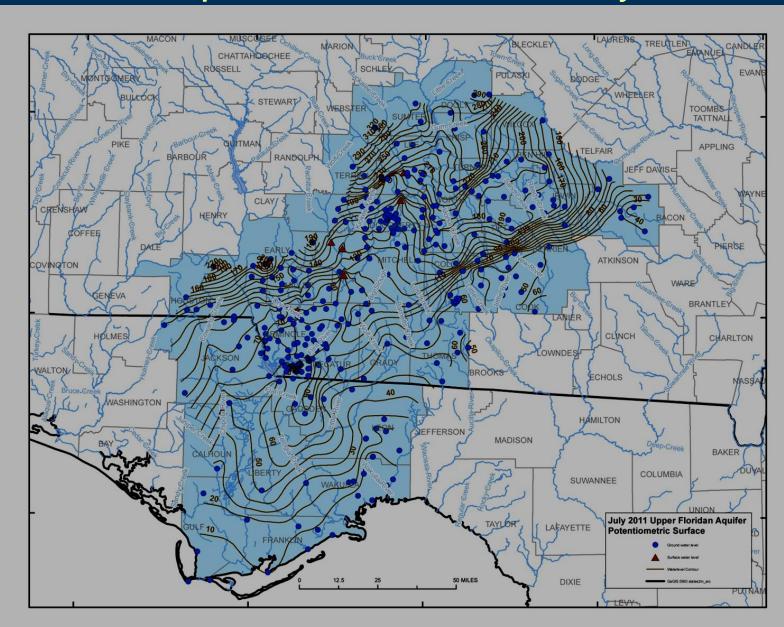






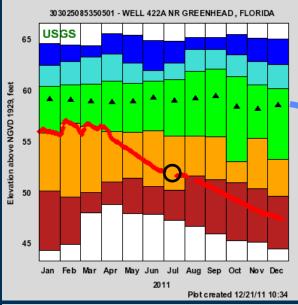
Upper Floridan Aquifer Water Levels July 2011

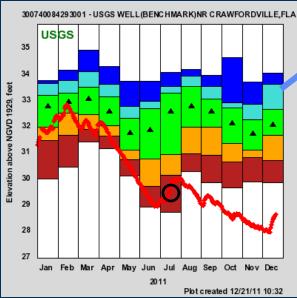
Provisional subject to revision

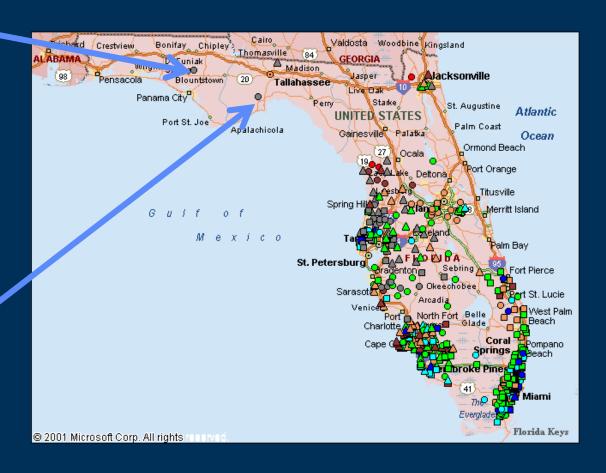




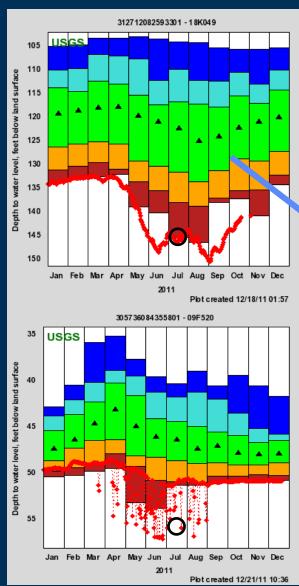
Florida wells

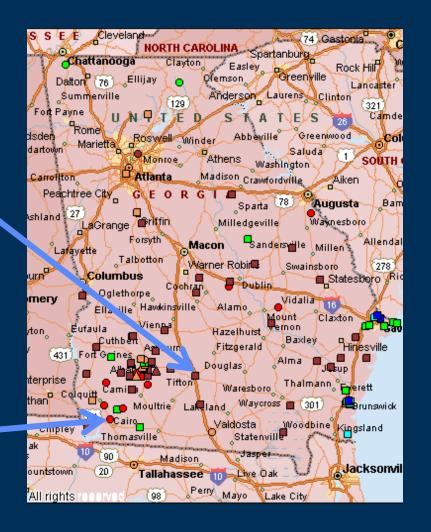






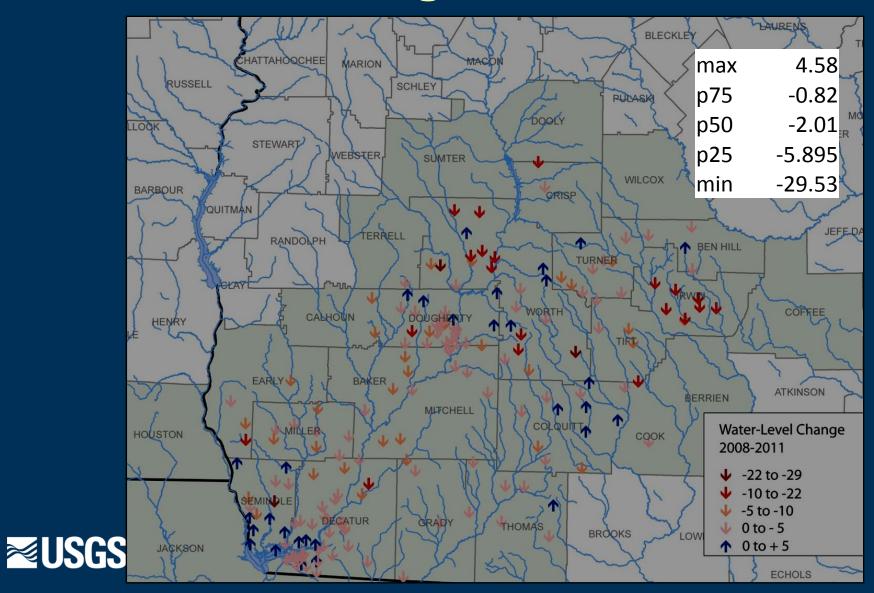
Georgia Wells



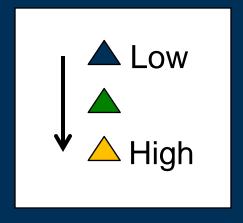




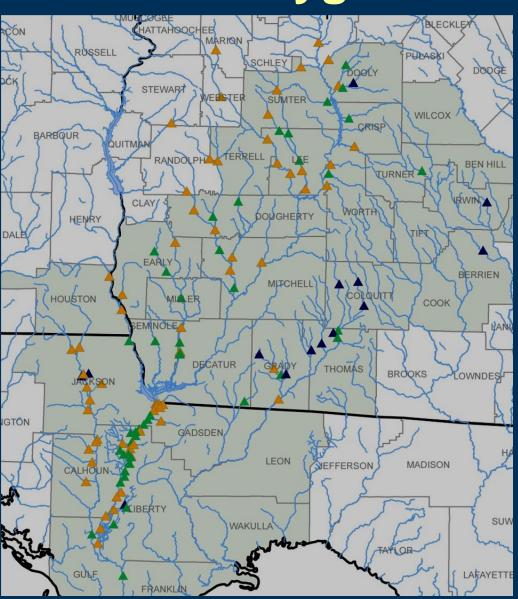
Water-Level Change 2008-2011



Stream QW—Dissolved Oxygen







Report in Preparation

- Abstract
- Introduction
 - Purpose and Scope
 - Description of the Study Area
 - Physiography
 - Hydrogeologic setting
 - Climate
 - Previous Investigations
 - Well- and Stream-Numbering Systems
- Methods
- Hydrologic, Climatic, and Stream Water Quality Conditions
 - Precipitation
 - Groundwater Levels
 - Surficial aquifer
 - Upper Floridan aquifer
 - Stream Base Flow
 - Stream Water Quality
- Summary
- Selected References



